# descriptions of Fout NEW speries of hmiritpoDOUS ('RINTMCEA FROAI THE GULE OF MEXICO). 

By Aethies. Pemben,<br>

The species here described form a small part of a collection of amphiporls from the Gulf of Mexico which was sent to the anthor for study by the ITnited States National Museum. As lack of time prevents the eompletion of a full report in the near future, it is thought best to publish now the new forms already diseovered.

The type sperimens are in the United states National Musemm.

## AMPELISCA HOLMESII, new species.

Cephalon about equal to first ${ }^{\text {B }}$ segments of mesosome tapering anteriorly, truncated. first coxal plate slightly expanded distally. broader than second, about same width as third, fourth plate deeper than broad. lower edge much shorter than posterior maroin. Last ephimeral plate of metasome produted at posterior rentral corner, bisimate; both the process and lobe are less pronomed than in $\alpha$ macrocephala Lilljeborg. First segment of wosome with a slight dowal transvere depression and hehind it a low carina (more distinct in male) with a slight projecting angle. Corneal lenses small but distinct, lower par oceupying inferior corners of cephalon. First antenne about the length of the eephalon, reaching only slightly beyond the tip of the second segment of the peduncle of the second pair, those of the male reaching almost to tip of third segment, flagellum S-segmented. Second antenne in female scarcely half the length of body, third joint of pedmele shorter than seeond. Gnathopoda slender, propodus in first about the length of the carpus and slightly tapering distally, that of the seeond about half as long as the carpus and slender. Dactylus of first two peraopoda much longer than two preceding segments combined. Last pair of peraopoda with the basal joint almost as long as remainder of leg. posterior
expansion broad and rounded at the tip, with $\bar{i}$ spines on outer surface: propodus tapering and almost equal to two preceding segments combined; dactyl slightly longer than propodus. Last pair of wropoda with rami broadly lanceolate. Uropoda 2 , outer ramus somewhat shorter than imer. long spine near tip. Telson, lobes tapering,


Figi. 1.-AMPELIsGa holmesh. , Last eptheraf plate of metanome: $g_{1}$, first ginathorod of

tip hlunt, armed with two -pines, four paim of dorsal -pines arranged in a simuons line.

Length, female, 11 mm .
Abundant in a collection from Ferguson:s Past, ()yster Bay. Florita.

Type.-Cat. No. Tho․ U.S.N.M.
Named for Prof. S. J. Holmes.

## HAUSTORIUS AMERICANUS, new species.

Body tumid. First antenna, flagellum $\bar{i}$-jointed, the tips of the 6 distal joints bearing calceoli, accessory fiagellum one-jointed, second antema little longer than first antema, flagellum $\overline{\text { a }}$-jointed. Mandible palp large. middle joint longer than others. Second gnathopod about as stout as first gnathopod, fifth joint of second gnathopor armed with calceoli on its posterior distal margin. Third wropod,
rami both one-segmented. Telson twice as hoad as long. cle ft shatlow distal row of long spines and two dorsal lateral spines.

Length, 8.2 mm .
A single specimen collected by L. R. Cary at Cameron, Louisitana. Tiype.-C'at. No. 38:30. U.N.N.N.


Fig. 2.-HAUSTORIU'S ANERICANU'S, $a_{1}$, FIRST ANTENNA; $a_{2}$, SECOND ANTENNA; $g_{1}$, FIRST GNATHOPGD; $g_{2}$, SECOND GNATHOPOD; $m$, MANDIBLE; $p_{1}$, FIRST PEREOPOD; $p_{2}$, SECOND PERAOPOD; $p_{3}$, THIRD PEREAOPOD; $p_{4}$, FOURTH PEREOPOD; $t$, TELAON; $u_{1}$, FIRST UROPOD; $u_{3}$, THIRD UROPOD.

M ÆRA RATHEUNた, new species.
Body slender. smooth. Head, lateral lobes rounded. First side phate produced anteriorly into an acute process: third rounded ; second and fourth truncate. Third pleonic regment, postero-lateral corners slightly produced, hind margin slightly crenate. Eyes narrow elliptical. First antena, second joint of peduncle a little longer than first ; third short. flagellun as long as peduncle, er-jointerl, accessory flagellum 10 -jointed. Second antema, peduncle slightly shorter than that of first antema, flagellum subequal to ultimate joint of peduncle. Second gnathopod, fifth joint longer than sixth, palm straight, oblique, hind margin convex, setose. Second gnathopod, much larger, fourth joint produced into an acute process, fifth more than twice as wide as long, palm with a tooth at its onter angle and a
shallow notch at each end, denticulate. Third to fifth perropods, second joint well expanded, oval, with free corner, fifth peræopod subequal to fourth. Third uropod slightly longer than others, pe-


Fig, 3.-M.ERA RATHBUNA; $a_{1}$, FIRST ANTENNA; $a_{2}$, SECONDANTENNA; $g_{1}$, FIRNT GNATHOPOD OF MALE; $g_{2}$, SECOND GNATHOPOD OF MALE; $m p$, MAXILLIPED; mx, MAXILlA: $p_{1}$, first PER.EOPOD of MALE; $p_{5}$. FIFTH PEREOPOD; $t$, TELSON; $u_{3}$, TIHIRD YROPOD.
duncle short, rami equal. truncate. Telson cleft to base, a deep notch just outside the apex of each side from which a seta projects.

Length. 13 mm .
Itistribution.-Gulf stream. off Key West. Florida, 98 fathoms, February 1t, 1902, Station T279, U. S. Burean of Fisheries, steamer Fish Iturk; ;also 122 fathoms, February 26, 1902, Station 7296.

Type.-Cat. No. 38341. U. S. N. M.
Named for Miss Mary J. Rathbun.

## PROTELLOPSIS STEBBINGII, new species.

Head. bearing two achte spines above. First segment of perxon longer than head, third segment with two blunt dorsal spines at middle, fourth segment with two slight doral elevations at center; first four segments rugose above: second, third. and fourth bear large rugose lamellæ at their anterior ventral angles; fifth segment longest : third longer than fourth. fourth longer than second, sixth much longer than seventh, fifth ahmost twice as long as sixth and seventh together. Eyes rounded or slightly oval. First antemme
twice as long as second, first joint shorter than head and first segment of peraon: first segment half as long as secourl. third twothirds as long as first; thagellum longer than peduncle, 14 -segmented. Second antemne more slender than first. third segment twice as long as first two; flagellum 2 -jointed, penultimate twice the length of ultimate joint. Mandibles. with two plates. each bearing is teeth,


Fig. 4.-Protellopsis stebbingil. $a b$, AbDomen; $g i$, gillf; $g_{1}$, fipst GNATHOPOD of male; $g_{2}$, sECOND GNATHOIOD OF MALE; $g_{2}$, SECONI MSATHOPOD OF FEMALE: $m$, MANDIBLE: $m p$, MAXILLIPED: $p_{1}$, FIRAT IERAOPOD; $p_{3}$, THIRD PEREOPOD; $p_{5}$, FIFTH PEREOPOD.
prominent molar tuberele with strongly denticulate crown. Maxilliperls, with imner prismatic plate very small, bearing 2 small teeth and 4 apical spines: onter phate ahmost three times as long as imner, bearing 1 apical spine and 2 others near the immer distal margin. First gnathopoda of male, palm lamellate, finely denticulate and armed with many spines. Second gnathopota with carpus subequal to merus, palm concave with proximal angle greatly
extended into a lamelle which is produced into a spinous process at both angles and has a notch near the proximal angle, dactyl strong and simmate. • Two anterior perepoda, 2 -segmented, one-third as long as gill, which is rather slender and elliptical; third perwopod much more slender than last two. Terminal regment of first abdominal appendage ending in a conical process, around the base of which are a circle of small acute spines. Second abdommal appendage blunt and spinose at tip.

Length, 11 mm .
Female with dorsal spines much less prominent. Second gnathopod with a notch in the center of the palm and just behind this a spinous process.

This species was abundant in the Gulf of Mexico, off Northwest Chamel, February $2 t, 1902$, Station i292, U. S. Burean of Fisheries, steamer Fish II curk, $10 \frac{1}{4}$ fathoms.

Type-Cat. No. 38342 , U.S.N.M.
Named in honor of the Rev. T. R. R. stebbing.

